

Claims.

1. A support device for containers of liquids in extracorporeal blood treatment machines, or in renal failure treatment machines, comprising:

5       - a base body; and

      - a support element associated to the base body,

      characterized in that the support element is displaceable with respect to the base body between at least one operative loading position and an operative work condition.

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2. The device of claim 1, characterized in that the support element is slidable between the operative loading position and the operative work position along a movement direction.

15 3. The device of claim 2, characterized in that the movement direction lies in an essentially horizontal plane when the support device is operating.

4. The device of claim 1, characterized in that the support element is mobile between the operative loading position and the operative work position by means of at least a translating or rotary displacement.

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5. The device of claim 2, characterized in that the support element comprises at least one elongate arm which is slidable in a guide of the base body in order to displace between the operative loading position and the operative work position.

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6. The device of claim 5, characterized in that the support element comprises two elongate arms which are

slidable in guides of the base body in order to displace between the operative loading position and the operative work position.

5 7. The device of claim 1, characterized in that the support element comprises means for supporting a container.

10 8. The device of claim 7, characterized in that the means for supporting comprise at least one body which is removably constrainable to the support element for supporting the said container.

9. The device of claim 8, characterized in that the body is intended for directly supporting the said container.

15 10. The device of claim 8, characterized in that the body which is constrainable to the support element exhibits a manual transport organ and at least one support hook for the said container.

11. The device of claim 10, characterized in that the manual transport organ is a handle.

20 12. The device of claim 10, characterized in that the body comprises at least two support hooks for receiving the said container.

25 13. The device of claim 10, characterized in that the body constrainable to the support element comprises a rod which bears the manual transport organ and the said at least one support hook, the support element exhibiting supports for receiving and engaging the rod.

30 14. The device of claim 1, characterized in that the operative loading position corresponds or is close to a position of maximum extraction of the support

element from the base body, the operative work position corresponding or being close to a position of minimum extraction of the support element from the base body.

- 5 15. The device of claim 1, characterized in that the support element is provided with at least one mechanical endrun stop for the operative loading position.
- 10 16. The device of claim 15, characterized in that the mechanical endrun stop is defined by a groove, for example located on the said elongate arm.
- 15 17. The device of claim 1, characterized in that the support element is provided with at least one further mechanical endrun stop for the operative work position.
18. The device of claim 17, characterized in that the further mechanical endrun stop is defined by a groove, for example located on an elongate arm.
- 20 19. The device of claim 1, characterized in that it comprises at least one position sensor, associated to the base body, for detecting at least the operative work position of the support element.
20. The device of claim 19, characterized in that the position sensor is a Hall sensor.
- 25 21. The device of claim 1, characterized in that it comprises further sensors for weighing a container associated to the support device.
- 30 22. The device of claim 21, characterized in that the sensors for weighing comprise at least one measuring balance.

23. The device of claim 22, characterized in that the sensors for weighing further comprise a control balance.
24. The device of claim 1, characterized in that the support element further comprises a manoeuvring handle for enabling a manual displacement between the operative work position and the operative loading position, and vice versa.
25. The device of claim 1, characterized in that a loading of a container is performed only in the operative loading position of the support element.
26. The device of claim 1, characterized in that it further comprises stop means for selectively blocking a relative position of the support element with respect to the base body, at least in the operative loading position and/or in the operative work position.
27. The device of claim 26, characterized in that the stop means are normally active for blocking the support element in a retracted position thereof.
28. The device of claim 27, characterized in that the stop means are operated for enabling a contemporary extraction only of a predetermined number of support elements.
29. The device of claim 20, characterized in that the said balance for weighing is associable to a machine control unit, which is provided with a CPU which receives a signal proportional to a weight provided by the balance for weighing; the said CPU being able to validate the said signal relating to the weight only

when the support element is in the operative work position.

30. The device of claim 1, characterized in that the base body is associated to the machine at a lower portion of the machine.

31. A support device for containers in extracorporeal blood treatment machines, or in renal failure treatment machines, comprising:

- a base body;

- a support element associated to the base body;

- means for supporting a container which means for supporting are constrained to the support element; and

- means for weighing the container,

characterized in that the support element is translatable in relation to the base body between at least an operative loading position and at least an operative work position.

32. A machine for extracorporeal blood treatment, comprising a support device as in any one of the preceding claims.

33. A machine for treatment of renal failure, comprising a support device as in any one of the claims from 1 to 31.

34. The machine of claim 32, comprising:

- a floor base;

- an upright structure developing away from the floor base;
- a machine body borne superiorly by the upright structure and defining a housing space together with the floor base.

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35. The machine of claim 34, characterized in that the support device is constrained to the machine body or to the upright structure at a position corresponding to the housing space.
- 10 36. The machine of claim 34, characterized in that a displacement of a centre of gravity of the machine following a displacement between the operative loading position and the operative work position of the support element is comprised within an overall
- 15 dimension occupied by the floor base.